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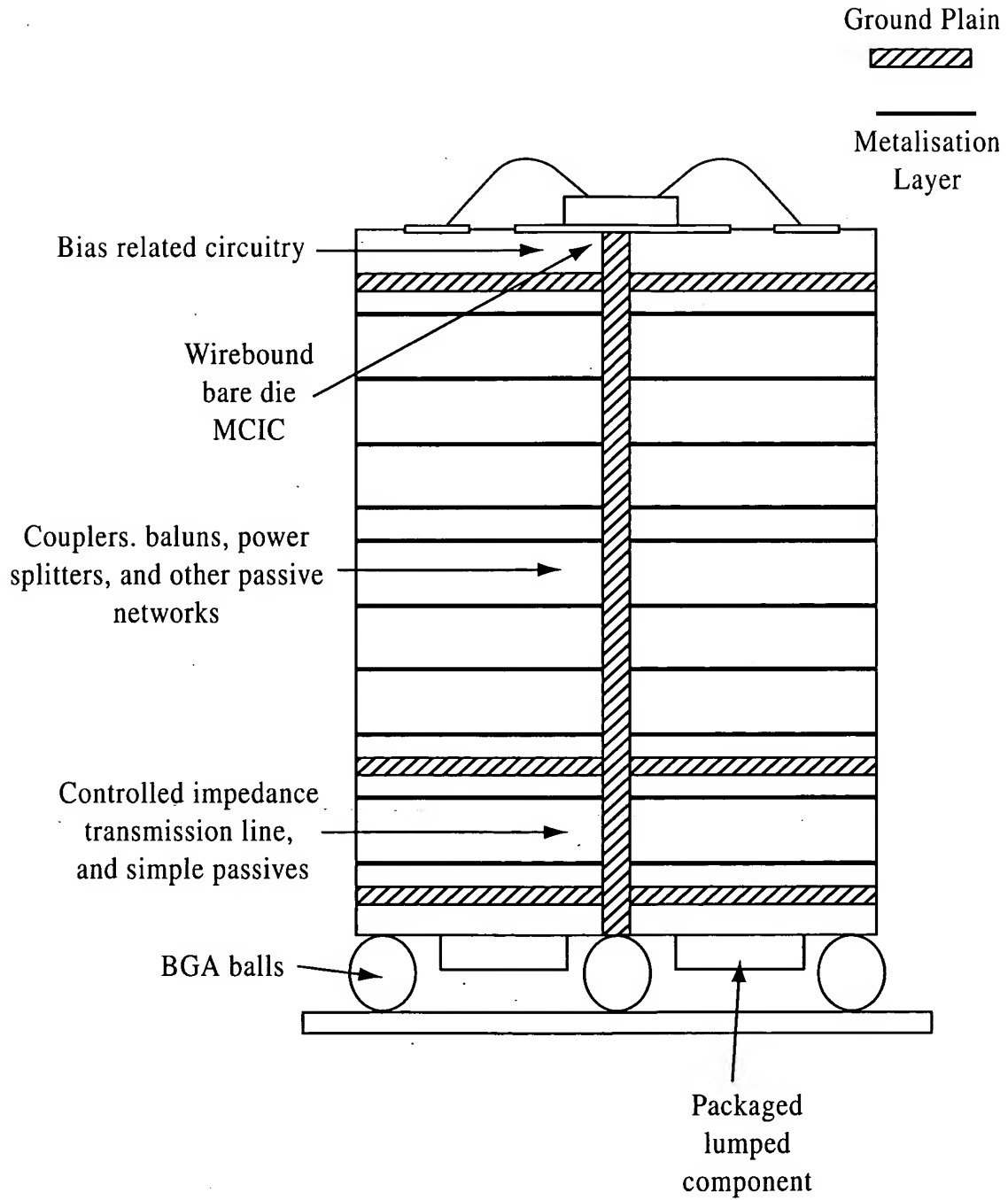
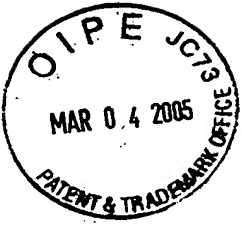


Fig.1
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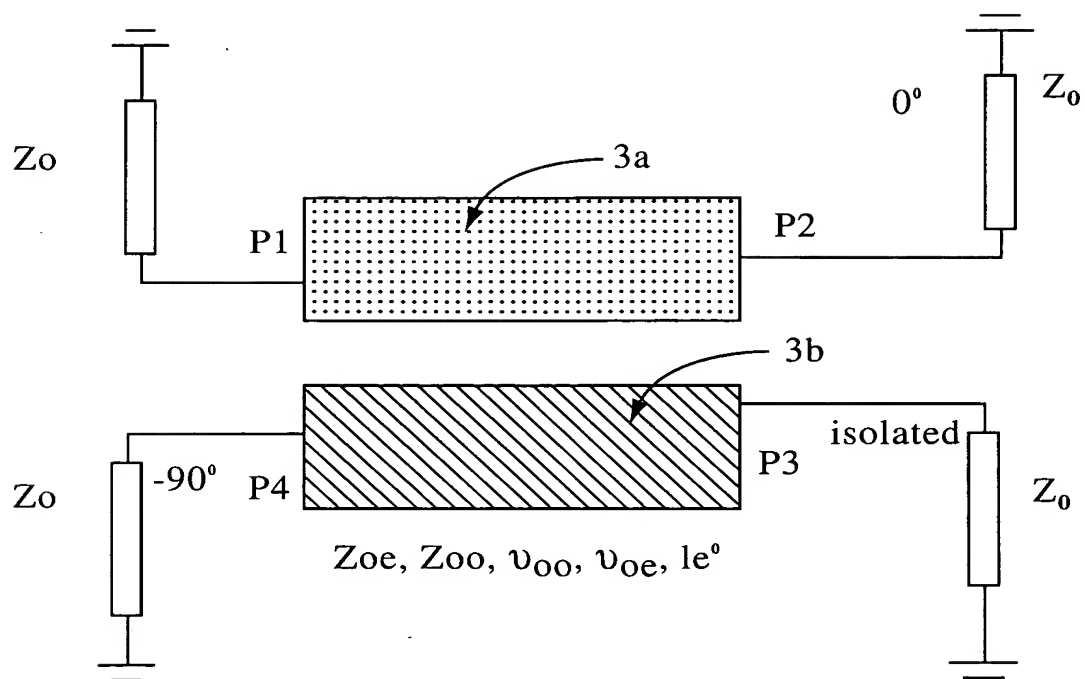
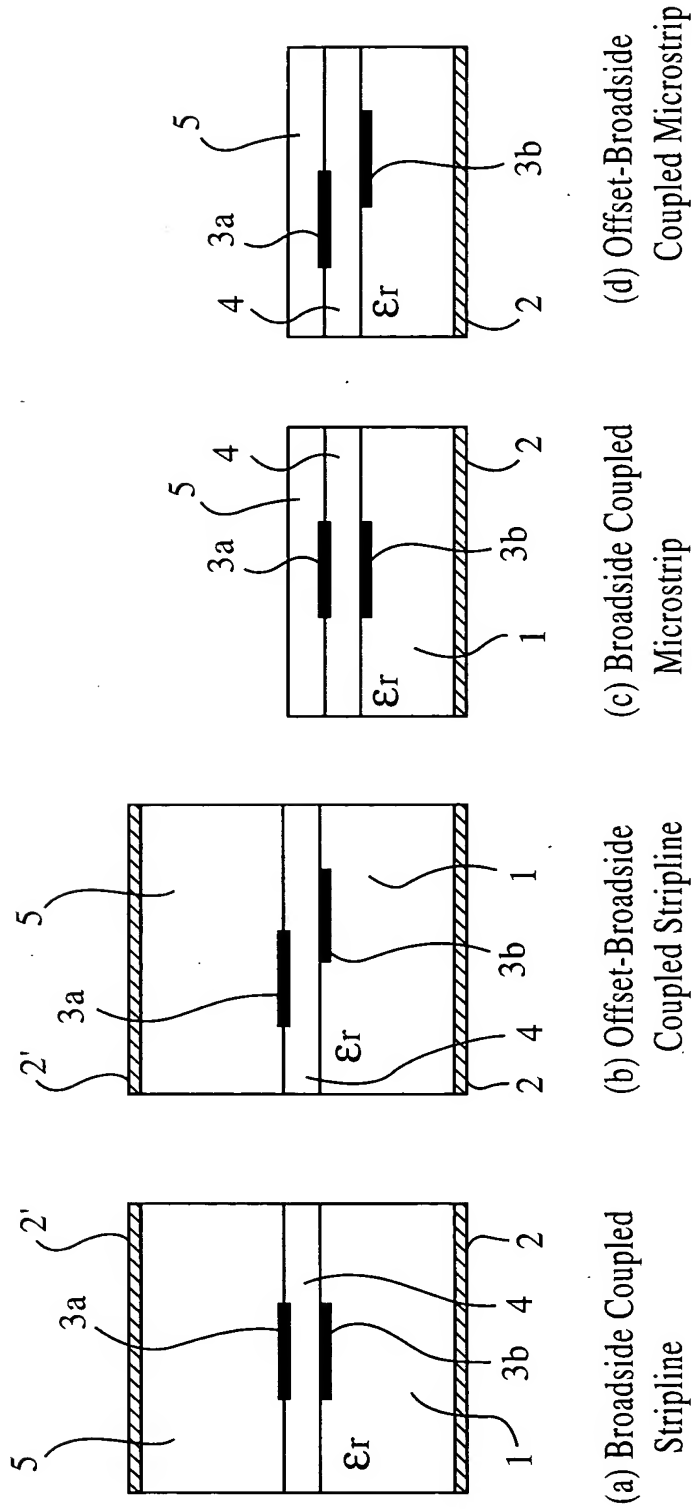


Fig.2
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Cross-section of four broadside coupled structures.

Fig. 3

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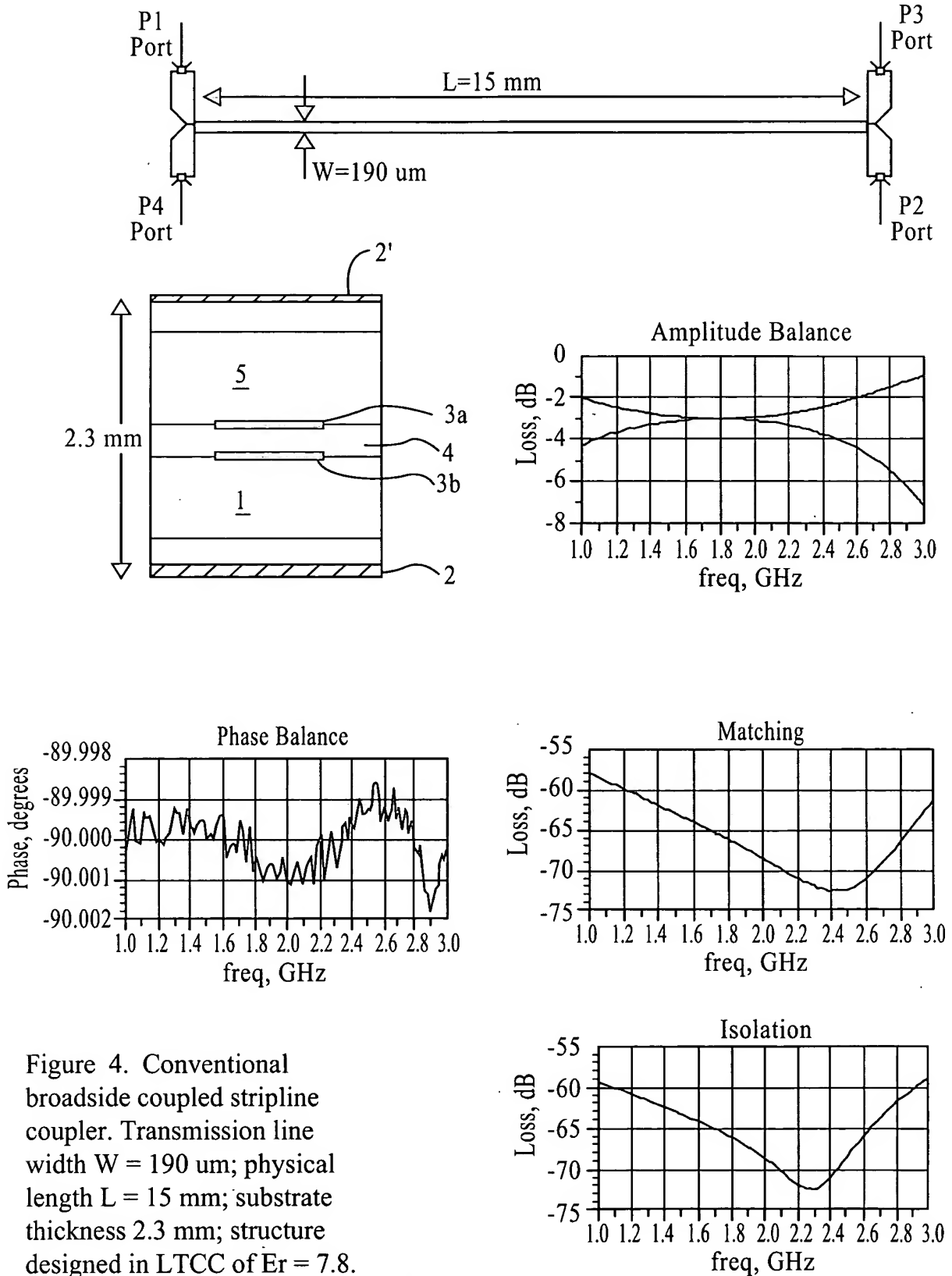


Figure 4. Conventional broadside coupled stripline coupler. Transmission line width $W = 190 \text{ um}$; physical length $L = 15 \text{ mm}$; substrate thickness 2.3 mm ; structure designed in LTCC of $\epsilon_r = 7.8$.

Fig.4
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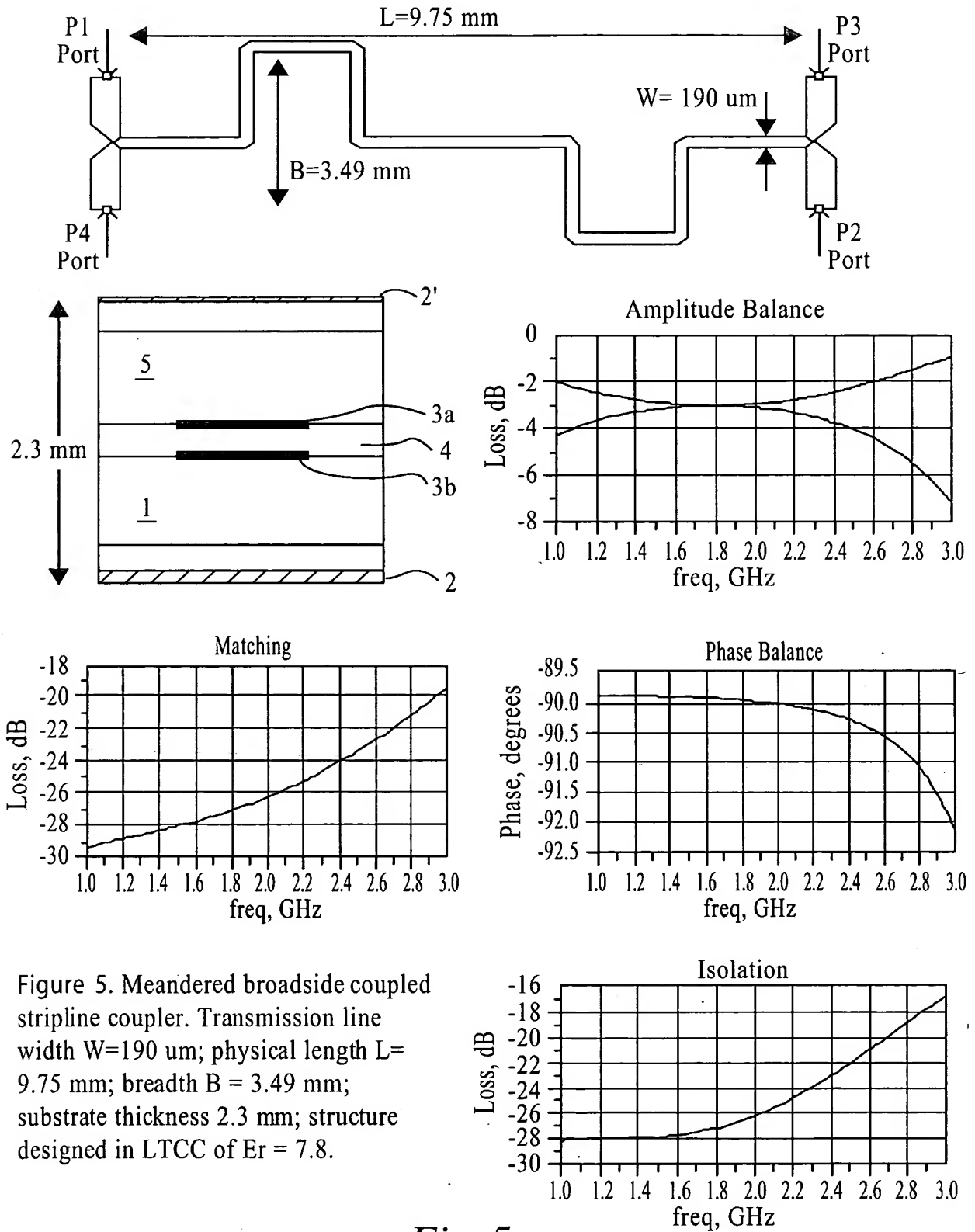
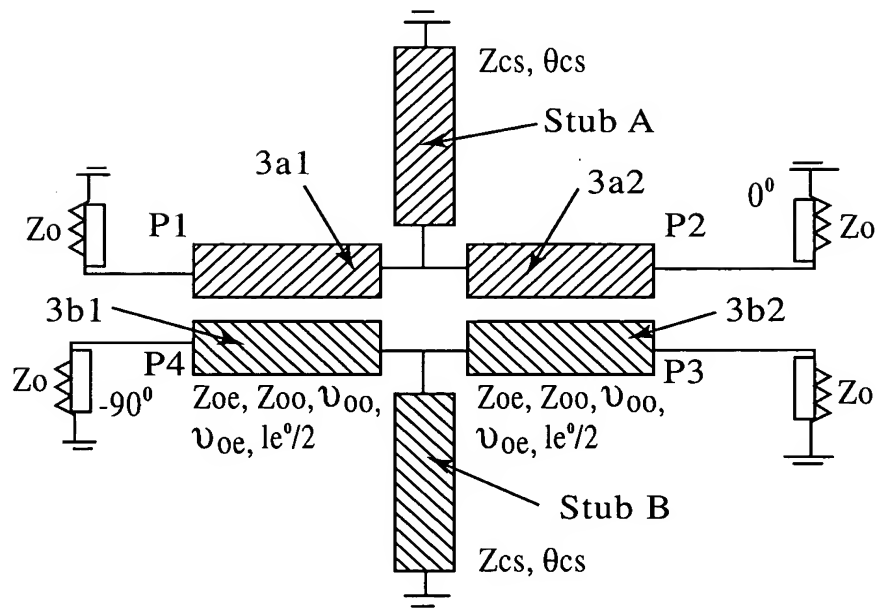


Figure 5. Meandered broadside coupled stripline coupler. Transmission line width $W=190\text{ }\mu\text{m}$; physical length $L=9.75\text{ mm}$; breadth $B=3.49\text{ mm}$; substrate thickness 2.3 mm ; structure designed in LTCC of $\epsilon_r = 7.8$.

Fig.5
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Fig.6



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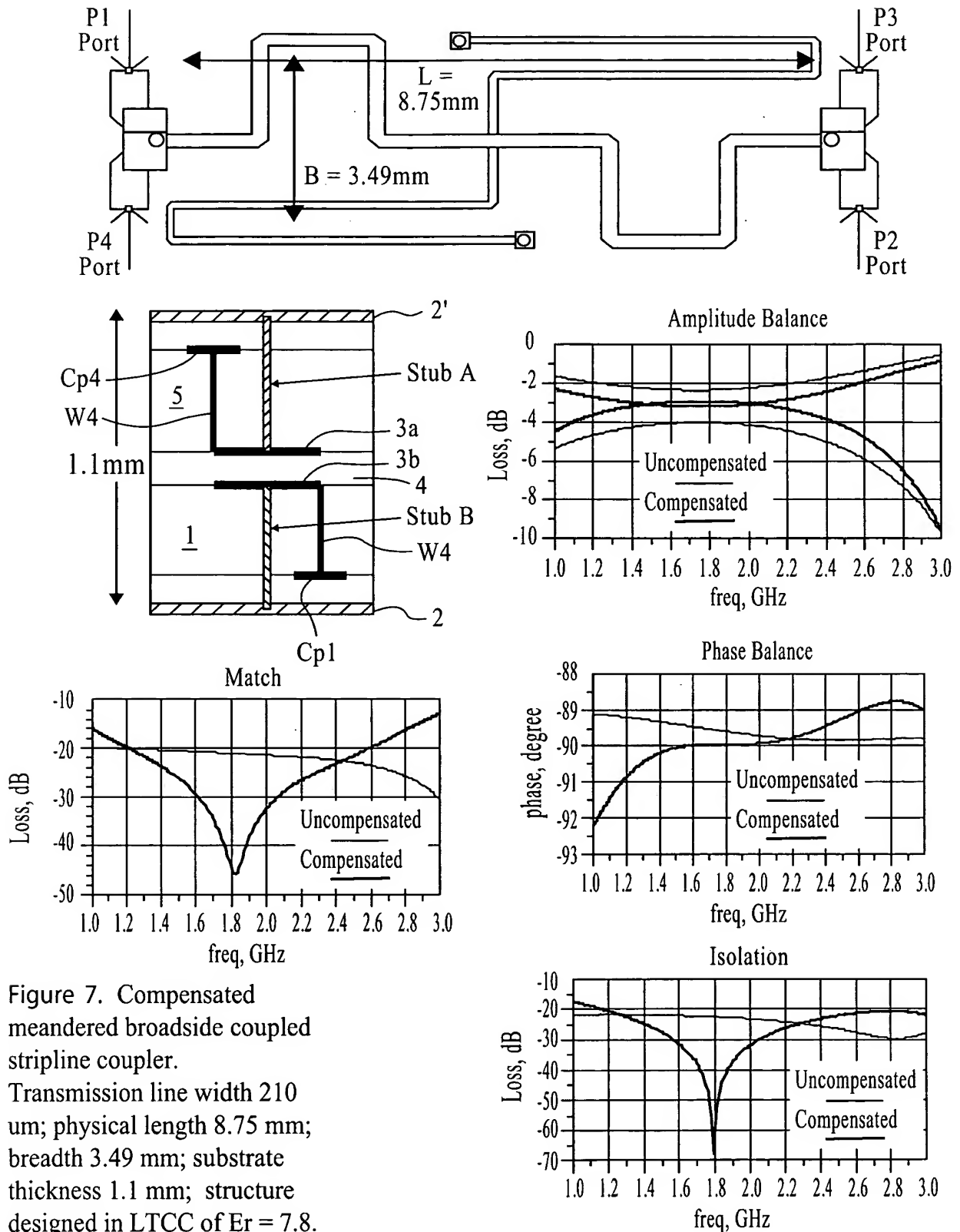
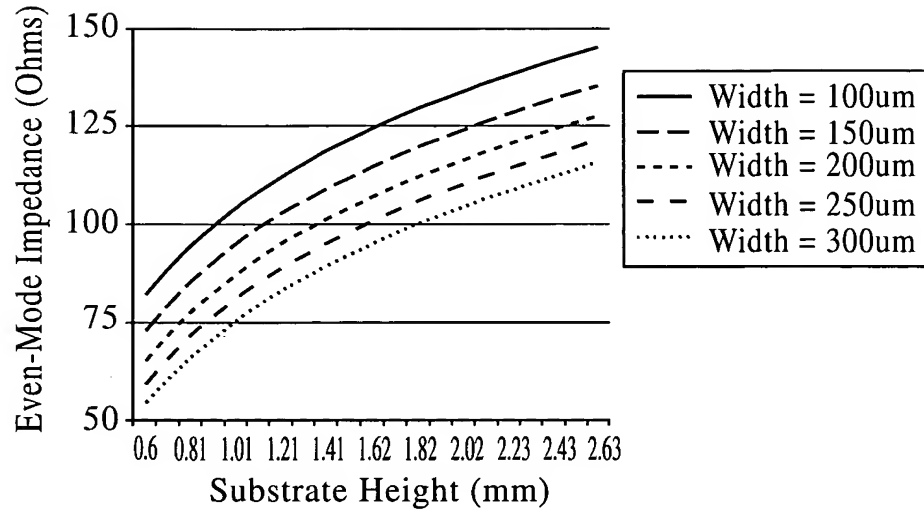


Figure 7. Compensated meandered broadside coupled stripline coupler. Transmission line width 210 μm ; physical length 8.75 mm; breadth 3.49 mm; substrate thickness 1.1 mm; structure designed in LTCC of $\epsilon_r = 7.8$. Short-circuit stub total length 10 mm and width 125 μm . Capacitors of 0.42pF

Fig.7

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Stripline Coupler Even-Mode Impedance



Microstrip Coupler Even-Mode Impedance

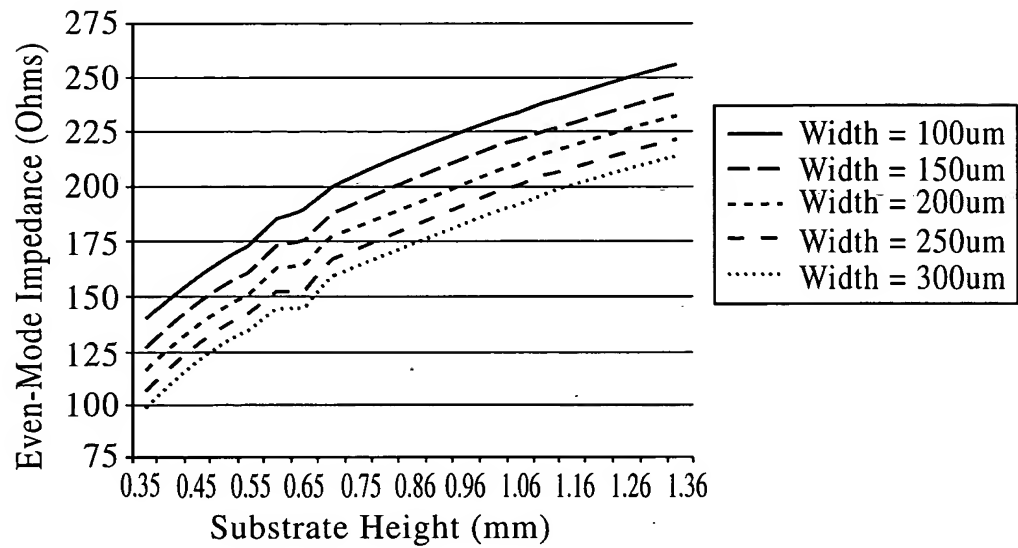


Fig.8

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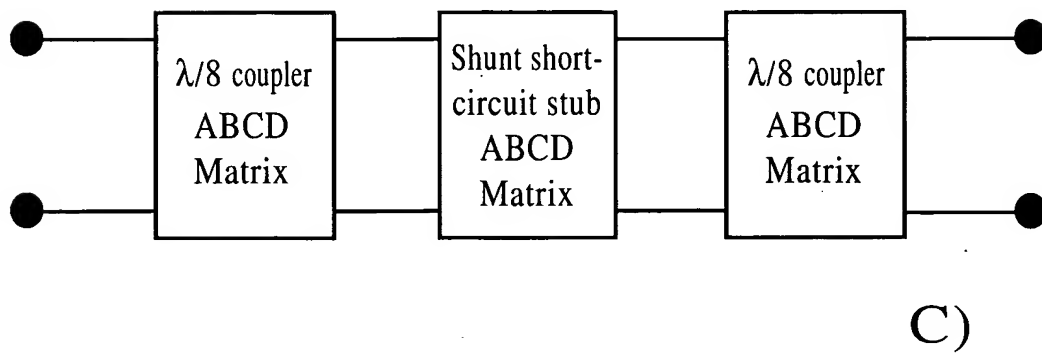
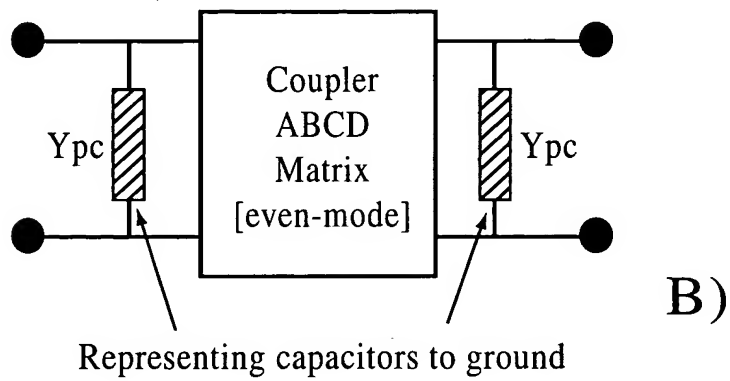
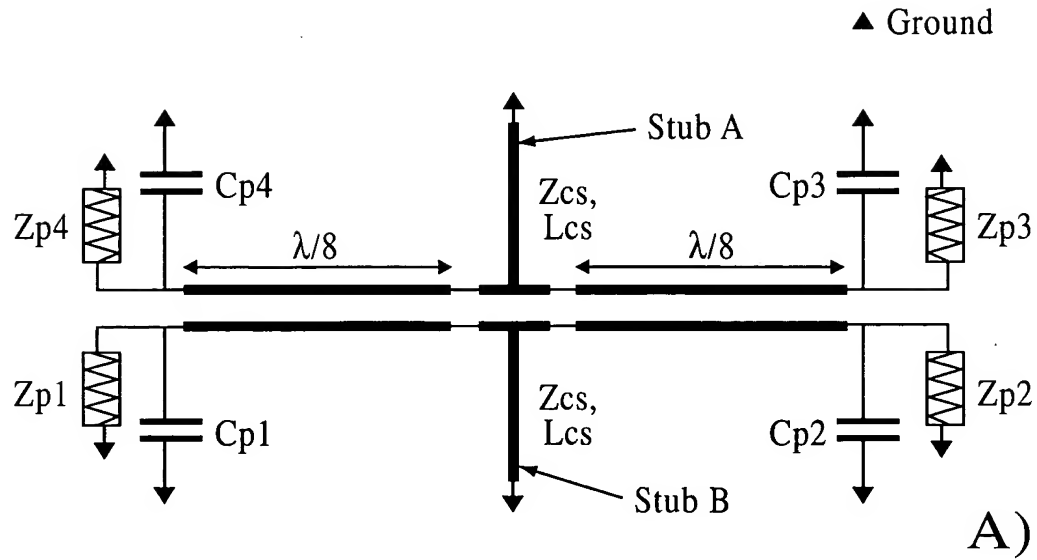


Fig.9

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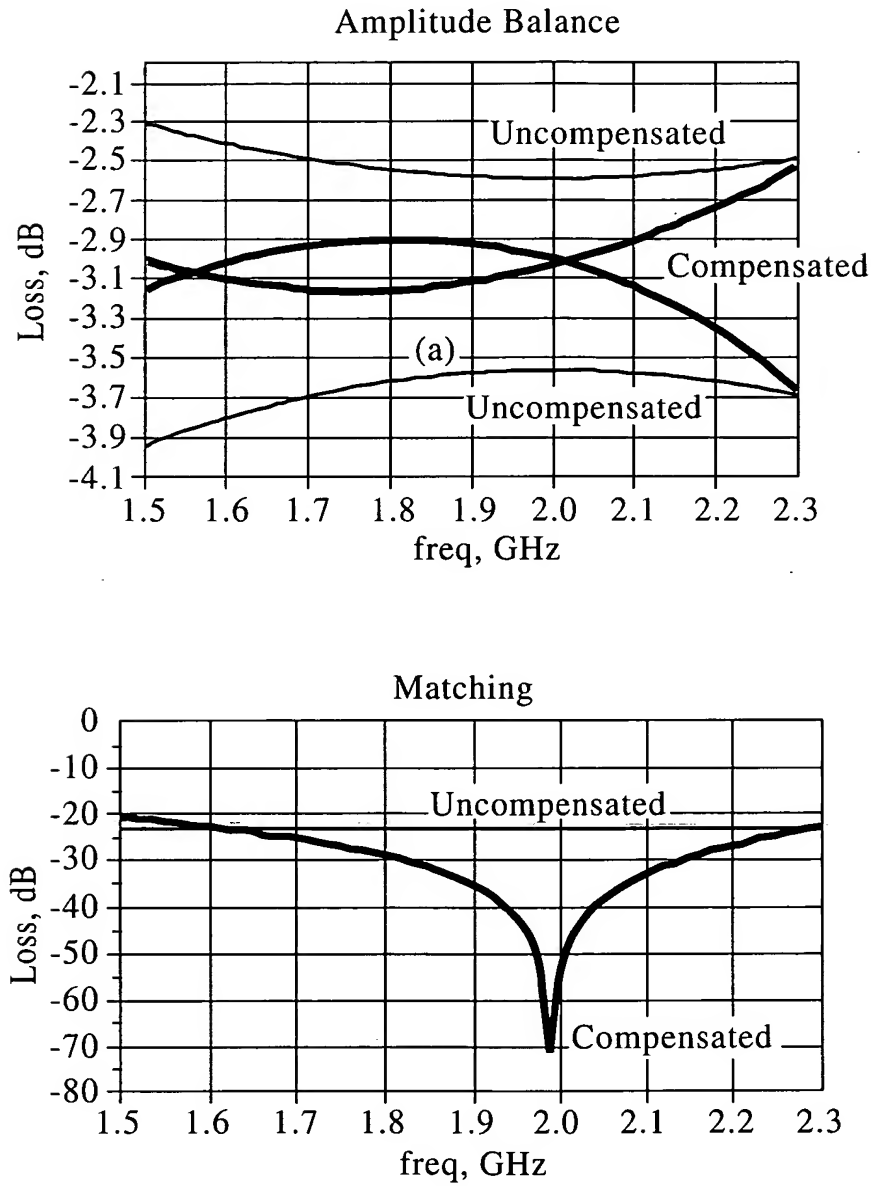


Fig.10

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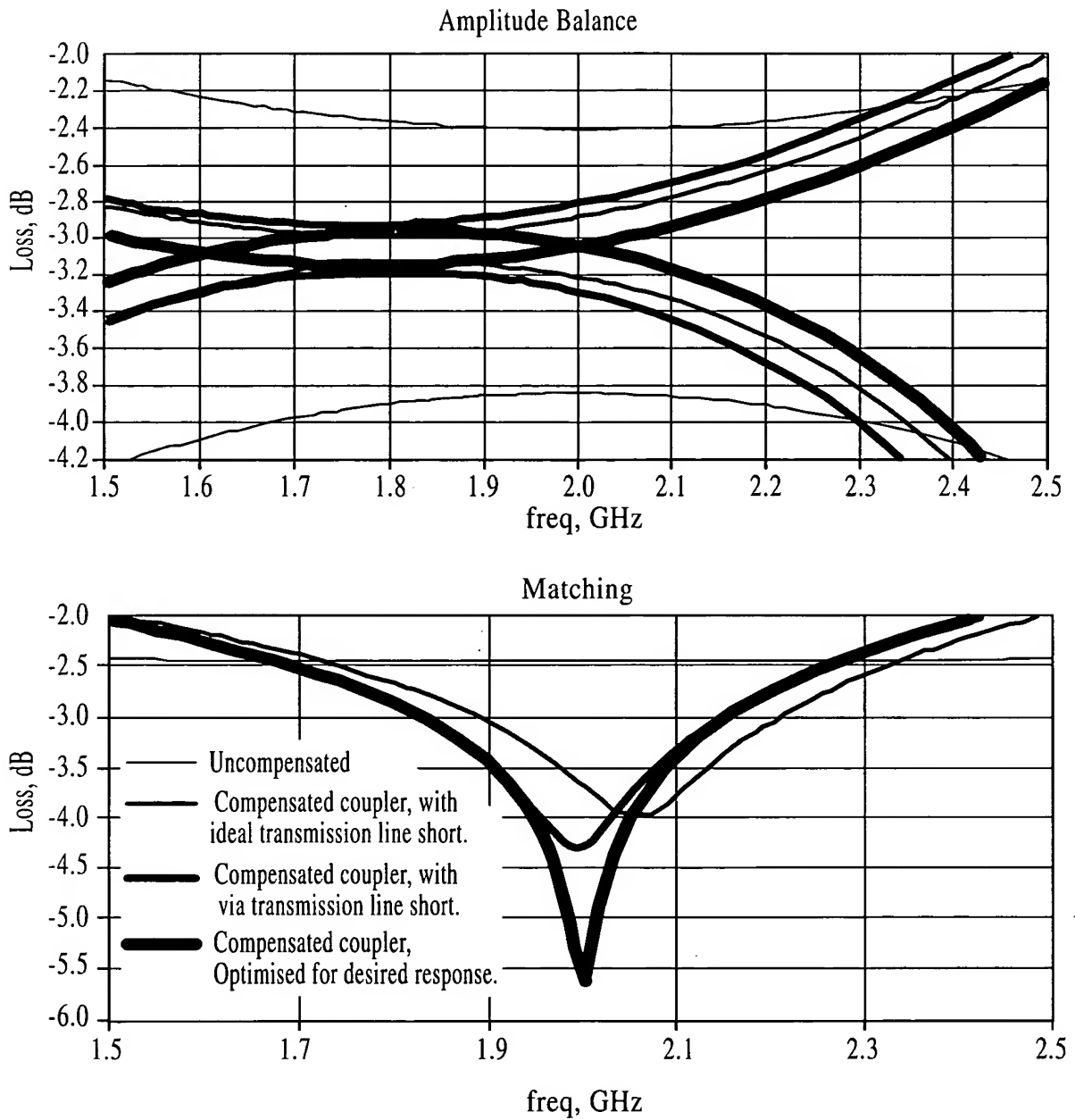


Fig.11

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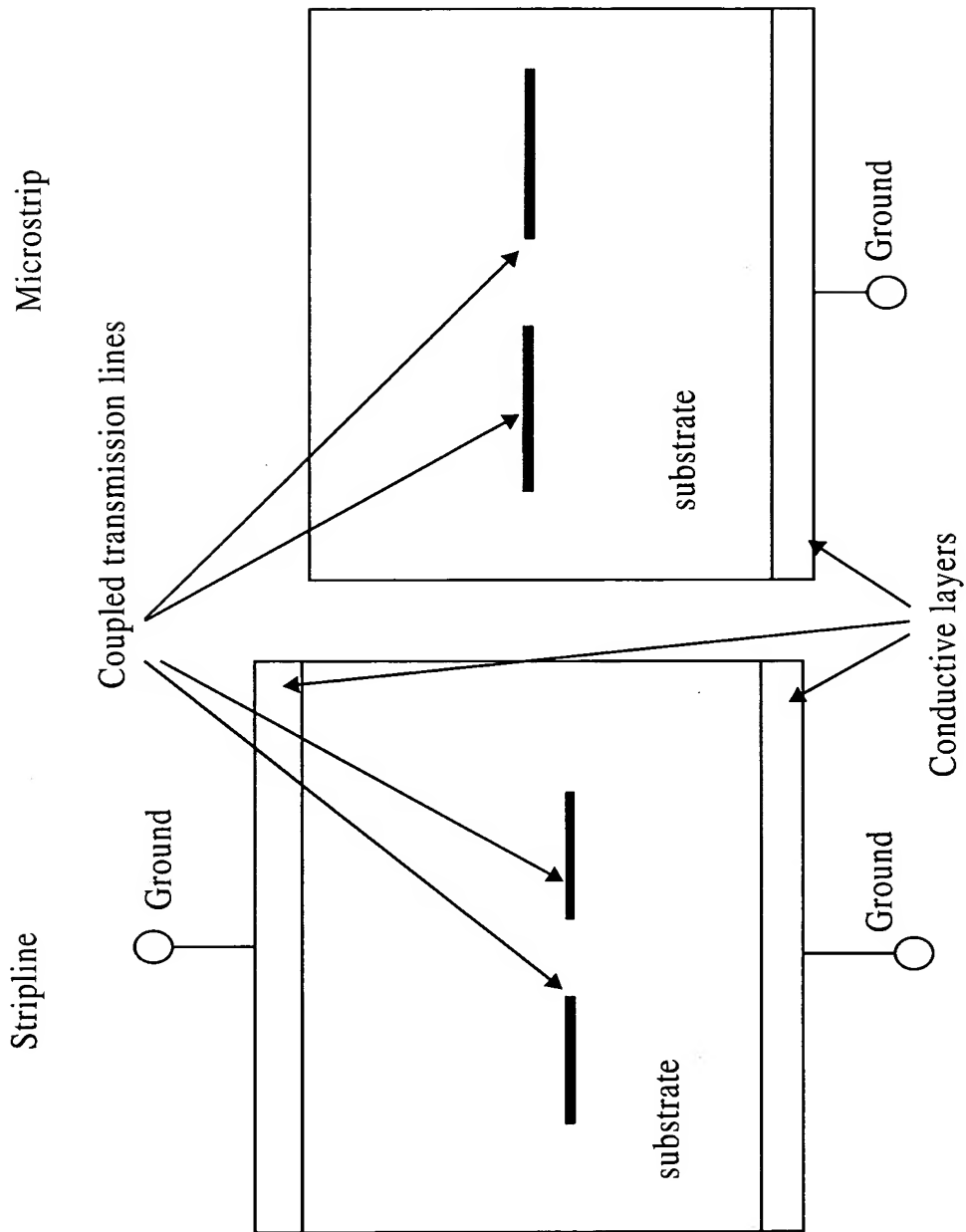


Fig.12
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